1 2 United States Environmental Protection Agency 3 Region 9 4 5 In the Matter of : Iron Mountain Mine Order No. 92-26 6 7 Iron Mountain Mines, Inc., T.W. Arman, Rhone-Poulenc Basic Chemicals Co. 8 9 Respondents 10 Proceeding under Section 106 of the 11 Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments 12 and Reauthorization Act of 1986, 13 (42 U.S.C. § 9606) 14 15 16 ADMINISTRATIVE ORDER . FOR REMOVAL ACTION 17 18 I. INTRODUCTION AND JURISDICTION This Order directs Respondents to conduct necessary design 19 and construction activities described in the Action Memorandum 20 for the Iron Mountain Mine site, dated September 2, 1992, and to 21 22 operate and maintain the emergency response treatment plant and disposal unit described in the Action Memorandum. 23 This Order is issued to Respondents by the United States Environmental 24 25 Protection Agency ("EPA") under the authority vested in the President of the United States by section 106(a) of the 26 Comprehensive Environmental Response, Compensation, and Liability 27

28 Act of 1980, as amended ("CERCLA"), 42 U.S.C. § 9606(a).

authority was delegated to the Administrator of EPA on January 23, 1987, by Executive Order 12580 (52 Fed. Reg. 2926, January 29, 1987), and was further delegated to EPA Regional Administrators on September 13, 1987 by EPA Delegation No. 14-14-B. The Regional Administrator redelegated this authority to the Director, Hazardous Waste Management Division.

II. FINDINGS OF FACT

2. Iron Mountain Mine ("IMM" or "the Site") is located in the southeastern foothills of the Klamath Mountains, approximately nine miles northwest of the City of Redding. Between the 1860's and 1963, IMM was periodically mined for iron, silver, gold, copper, zinc, and pyrite. The mine area is located on 4,400 acres of property that includes an open pit mine, underground workings, waste rock dumps and tailings piles.

IMM averages 70-80 inches of precipitation per year, most of it falling in the form of rain between the months of November and April.

IMM is drained by Boulder Creek to the north, and Slickrock Creek to the south of the mine. Boulder Creek, a perennial stream, receives a portion of its flows from the Lawson and Richmond adits via their mine portals. The Richmond and Lawson adits are the two principal sources of acid mine drainage at Iron Mountain. Slickrock Creek, an intermittent stream, receives discharges from underground seepage and surface flows from the Brick Flat Pit area. A debris slide diverted the original Slickrock Creek drainage and buried adits from which acid mine drainage is emanating.

Slickrock Creek and Boulder Creek flow southeastward into

- Spring Creek, which flows into the Spring Creek Reservoir,

 created by the construction in 1963 of the Spring Creek Debris

 Dam, a unit of the Central Valley Project. Releases from Spring

 Creek drain into Keswick Reservoir, where they mix with releases

 of clean water from Shasta Dam.
 - 3. The respondents identified in this paragraph are collectively referred to as "Respondents."

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- A. T.W. Arman and Iron Mountain Mines, Inc. (IMMI),
 Respondents are the current owners and operators of Iron Mountain
 Mines, and have been the owners and operators since about
 December, 1976.
- Rhone-Poulenc Basic Chemicals Co., Respondent, is the legal successor to Mountain Copper Co., Ltd. and Stauffer Chemical Co. Mountain Copper was the owner and operator of the facility from approximately 1896 to 1967, and continued to own portions of the facility until 1980. Stauffer Chemical Co. owned and operated the facility from approximately 1967 to 1976, and through its wholly owned subsidiary Mountain Copper, continued to own portions of the facility until 1980. the time that Mountain Copper owned and operated the facility, hazardous substances, including some or all of those described in this section, were disposed of at the Site. This disposal at the facility resulted in releases from the facility into the environment. Releases of hazardous substances into the environment continued during the period Stauffer Chemical Co. owned and operated the facility. Among other actions, both Mountain Copper and Stauffer Chemical Co. owned and operated a copper cementation plant. Effluent from the plant contained

1 copper, cadmium and zinc and was released into surface waters.

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4. On September 8, 1983, pursuant to section 105 of CERCLA, 42 U.S.C. § 9605, EPA placed the Site on the National Priorities List, set forth at 40 C.F.R. Part 300, Appendix B.

In September, 1983, pursuant to CERCLA and the National 5. Contingency Plan, 40 C.F.R. Part 300, EPA commenced a Remedial Investigation and Feasibility Study ("RI/FS") to study and evaluate potential remedies for the Site. During the course of that investigation, which extended from September 1983 to April 1985, EPA conducted weekly sampling of five major sources at the mine and three locations on Spring Creek, and biweekly sampling at four locations along the Sacramento River for heavy metals; installed flow measurement stations at eight locations, including mine portals and downstream receiving waters; measured precipitation at six gauges throughout the area; reviewed all existing literature on the site; conducted a groundwater investigation; and conducted two comprehensive surface sampling surveys, involving 76 sampling points, in September 1983 and December 1983.

During a dry period in September 1983 and a rainy period in December 1983 EPA conducted the two intensive sampling programs to locate and quantify the sources of heavy metals pollution at the IMM. The Regional Board conducted sampling in April 1983 which reflect usual late winter conditions when the mountain is saturated. The sampling station locations are identified in Figure 2 of the Record of Decision. The rankings of the heavy metals contribution for copper, cadmium and zinc are shown in Figure 3 of that document.

The RI identified five major sources as responsible for approximately seventy two percent of the copper and eighty six percent of the zinc and cadmium being discharged from the site during the sampling period. These sources were: the Richmond Portal, the Lawson portal, Old Mine/No. 8 seep, Big Seep, and the Brick Flat Pit By-Pass. In addition to the five major sources, EPA identified numerous other sources of releases of metals and acid mine drainage at the Site. The studies completed by EPA in 1983 show that the flow of acid mine drainage through tailings piles on the IMM property is also contributing to metals contamination. EPA published notice of the completion of the FS and of the proposed plan for remedial action and provided opportunity for public comment on the proposed remedial action.

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- 6. On October 3, 1986, Assistant Administrator J. Winston Porter approved a Record of Decision for the Site. The ROD approved for the Site authorized the following activities: the construction of a cap over the Richmond mineral deposit to reduce infiltration into this source of acid mine drainage; diversion of clean surface water from the Upper Spring Creek watershed before it reaches the portion of the basin affected by IMM; diversion of clean water from the South Fork of Spring Creek; diversion of clean water from Upper Slickrock Creek; enlargement of the Spring Creek Debris Dam; installation of necessary perimeter controls; and conducting a study to better define the use of low density cellular concrete to minimize the formation of acid mine drainage.
- 7. As part of its ongoing efforts to control the acid mine drainage from Iron Mountain, EPA conducted an operable unit

feasibility study to develop remedial alternatives for the acid mine drainage releases in the Boulder Creek watershed. 20, 1992, EPA published a proposed plan and allowed for sixty days of public comment on the proposed plan. EPA's preferred alternative identified in the proposed plan was the construction and operation of a treatment plant on an interim basis until a permanent remedy could be selected. All of the alternatives analyzed in detail in the Feasibility Study required the construction of a comparable plant. At the time of the Action Memorandum and this order, EPA had not yet selected the remedial action. EPA has concluded, however, that it is not feasible to construct such a treatment plant prior to the winter of 1992-93. The hazardous substances released at the Site include copper, cadmium, zinc and sulfuric acid. The 1992 Remedial Investigation report, summarizes the data which shows the concentration, volume and historic patterns of releases of acid mine drainage from the Iron Mountain Mines. Historic mining activity at IMM has fractured the mountain increasing access of surface water and rain water and oxygen to the mineralized zones within the mine. The rubblizing of the mine workings has contributed to the formation of acid mine drainage in the mine. Precipitation and surface water infiltrating the mountain forms sulfuric acid in the presence of oxygen due to the oxidation of the pyrite. The sulfuric acid is drained by the mine workings and leaches out copper, cadmium, zinc and other metals. This heavy metal laden acid mine drainage flows out of the mine portals and seeps. Much of the metals

bearing acid mine drainage is ultimately channeled by the creeks

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into the Spring Creek Reservoir. The Bureau of Reclamation periodically releases the stored acid mine drainage impounded behind Spring Creek Debris Dam into Keswick Reservoir. Planned releases are timed to coincide with the presence of diluting waters from Shasta Dam. On occasion, unplanned spills and excessive waste releases have occurred from Spring Creek Debris Dam, resulting in the release of harmful quantities of metals in the Sacramento River.

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The Sacramento River is a valuable fisheries resource and 11. is used as a source of drinking water by the City of Redding, with a population of over 50,000. The Central Valley Regional Board adopted water quality standards applicable to the Sacramento River and the tributaries which flow into the Sacramento River from IMM on April 27, 1984. The State Water Resources Control Board and the EPA subsequently approved these standards. These standards limit dissolved concentrations of cadmium (0.00022 mg/l), copper (0.0056 mg/l), zinc (0.016 mg/l), and pH (6.5 to 8.3 with a maximum deviation of 0.3 units from ambient conditions). The California Fish and Game has identified these levels of metals as protective of all life stages of anadromous salmon and steelhead below Keswick Dam. These recommended levels were adopted by the Regional Board as Basin Plan objectives for the Keswick Dam area and approved by the State Board in August, 1984. EPA approved the objectives under CWA 303 on August 7, 1985. EPA Water Quality Criteria for protection of aquatic life below Keswick Dam are cadmium (0.00055 mg/1), copper (0.0054 mg/1), and zinc (0.047 mg/1).

The continuous release of metals from IMM and the

exceedances of water quality standards caused by the continuing release have contributed to a steady decline in the fisheries population in the Sacramento River. The major fishery resources of the Sacramento River below Keswick Dam include migratory populations of salmon and steelhead and resident populations of wild trout. The adult salmon and steelhead migrate from the ocean to the river where they reproduce. The young remain in the river through the juvenile life stage or sometime longer in the case of steelhead. Metal laden discharges from the Spring Creek Basin frequently occur at the time of year that the salmonoid life stage most sensitive to metal toxicity is abundant in the river.

The estimated monetary value of the chinook salmon and steelhead trout runs produced downstream of the Iron Mountain Mine discharge and upstream from the Red Bluff Diversion dam is \$33.7 million annually. The economic value of these fishery resources, once restored, is expected to increase to \$72 million annually. The metals from IMM have contributed to fish kills as well as incidents of sublethal toxicity which reduce the overall productivity of the population, including effects such as reduced growth rates, physiological problems, and diminished immune response.

In the California Department of Fish and Game's letter requesting EPA assistance with the then impending fish emergency for the winter of 1989-90, he stated that "It is well documented that drainage from Iron Mountain Mine contains concentrations of metals and acid toxic to fish and other aquatic life. Fishery resources vulnerable to destruction include four races of chinook salmon, steelhead, and rainbow trout. The chinook salmon

include: the winter-run chinook, which is going to be listed as a State endangered species and a Federal threatened species; spring-run and late fall-run chinook, which are both at low population levels; and the fall-run chinook, which is the stock that supports California's important sport and commercial salmon fishery. Last year the spawning grounds that were protected from fish kills from Iron Mountain Mine produced over 30 million dollars worth of salmon. Historic fish kills have destroyed fish that are life stages between embryo and adult in as little as a 48-hour exposure period. Fish kills impact the sport and commercial salmon fisheries in future years." The Department of Fish and Game estimated the economic value of the fall run chinook population in the area impacted by the mine discharge as over \$30 million for 1988 and stated that an extremely popular sport fishery is supported by the fall-run and resident rainbow trout.

In recent years, recurring drought conditions have underscored the importance of water conservation in California. The continued need to rely upon water from Lake Shasta and Keswick Reservoir to mitigate the impacts of acid mine drainage renders significant quantities of water unavailable for beneficial uses, resulting in a significant adverse impact on the human environment. An estimated 64,000 acre feet were released in March, 1989 to prevent a massive fish kill. In the spring of 1992, the United States Bureau of Reclamation released an estimated 95,000 acre feet to dilute the toxic discharges from Iron Mountain Mines which had overflowed the capacity of Spring Creek Debris Dam.

40 to 50 times that of Spring Creek to provide non-toxic conditions for salmon.

Near its source, the acid mine drainage contains sulfuric acid in concentrations that could cause serious eye injuries and skin irritation through dermal contact. Although the property owner has posted the property to discourage trespassers who might become exposed, the property is located between two heavily used National Forests and direct exposure can not be ruled out as a possibility.

Direct ingestion of contaminated fish from the Sacramento River does not pose a present health threat. However, without remediation, IMM releases will continue to deposit effluent in sportfishing areas and the concentration of cadmium will continue to be elevated above normal levels, resulting in potential bioaccumulation of cadmium in the livers and kidneys of those who ingest contaminated fish from the river.

12. Iron Mountain Mine has been the subject of numerous response actions over the past several decades. The Regional Water Quality Control Board has initiated numerous actions to require the owners and operators to abate the release of hazardous substances. These actions are described in greater detail in EPA Order No. 89-18.

EPA has conducted several actions to implement the response actions selected in the 1986 ROD, has initiated a further operable unit feasibility study, and has required Respondents to implement both removal and remedial actions at the site.

Remedial actions taken by EPA include the construction of a partial cap over Brick Flat Pit (construction started in July,

1988) and construction of a diversion around the slide in Slickrock Creek (construction started in July, 1989). A further remedial action selected in the ROD, construction of a diversion of the Upper Fork of Spring Creek, was implemented by Respondent Rhone-Poulenc acting under a unilateral order, Order No. 90-08.

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In the winter of 1988-89, EPA operated an emergency treatment plant at the site to reduce the toxicity of the acid mine drainage releases.

On August 15, 1989, EPA issued an order requiring Respondents to construct and operate a treatment plant at the site. Among other matters, this order required the construction and operation of a treatment plant capable of removing at least 95% of each of the metals copper, cadmium and zinc from a minimum of 60 gallons per minute and 95% of the copper from all flows from the Lawson Portal and Old Mine/No. 8. The plant was to remove metals from these sources from December 1, 1989 through March 31, 1990, inclusive, and Respondents were required to submit workplans for implementation in subsequent years. Paragraph V.C.1 of Order 89-08 required submittal of a workplan for metals removal during the period of implementation of remedial action provided for in the ROD. This paragraph also required that "The workplan should take into account expected variations in acid mine drainage flows and the potential need for additional controls during critical time periods for fishery resource impacts" and "The workplan shall provide some means of disposal for the sludge generated by the treatment process." Respondents continued to operate the plant during the winters of 1990-91 and 1991-92. Respondents submitted their proposed

operations plan for the winter of 1992-93 on August 18, 1992. 1 That plan proposed treating up to 60 gallons per minute of the 2 acid mine drainage flows from the Lawson Portal and Richmond 3 The plan provided for treating the most concentrated 4 flows first. Despite a continuing drought in California and the 5 significant overflow of Spring Creek Debris Dam in the spring of 6 7 1992, the workplan did not provide for additional controls during the coming winter. Nor did Respondent Rhone-Poulenc's proposal 8 9 provide an engineering analysis of the practicability of increasing capacity as requested in EPA's letter of July 15, 10 1992. EPA performed an engineering analysis of the 11 practicability of expanding treatment capacity, and after 12 consideration of this engineering analysis, the Respondent's plan 13 and past experience in controlling the releases, EPA decided to 14 increase the treatment capacity for the winter of 1992-93. 15 16 increase was selected in an Action Memorandum signed on September 2, 1992. 17

- 13. The response action to be implemented pursuant to this order involves the expansion of the treatment capacity of the emergency plant just described, and the disposal of the sludge from the plant.
- 14. Operation of the treatment plant at the increased capacity is expected to reduce the volume of acid mine drainage entering

 Spring Creek Debris Dam, thereby decreasing reliance on the holding capacity of Spring Creek Debris Dam.

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III. CONCLUSIONS OF LAW AND DETERMINATIONS

- 2 15. The Iron Mountain Mine Site is a "facility" as defined in 3 section 101(9) of CERCLA, 42 U.S.C. § 9601(9).
- 4 16. Respondents are "persons" as defined in section 101(21) of CERCLA, 42 U.S.C. § 9601(21).
- 6 17. Respondents are "liable parties" as defined in section
 7 107(a) of CERCLA, 42 U.S.C. § 9607(a), and are subject to this
 8 Order under section 106(a) of CERCLA, 42 U.S.C. § 9606(a).
- 9 18. The substances listed in paragraph 8 are found at the Site and are "hazardous substances" as defined in section 101(14) of CERCLA, 42 U.S.C. § 9601(14).
- 12 19. These hazardous substances have been released, are being
 13 released and threaten to continue to be released from the Site
 14 into surface waters.
- 20. The disposal and migration of hazardous substances from the Site are a "release" as defined in section 101(22) of CERCLA, 42 U.S.C. § 9601(22).
- 21. The potential for future migration of hazardous substances from the Site poses a threat of a "release" as defined in section 101(22) of CERCLA, 42 U.S.C. § 9601(22).
- 21 22. The release of the hazardous substances from the facility
 22 may present an imminent and substantial endangerment to the
 23 public health or welfare or the environment.
- 24 23. The contamination and endangerment at this Site constitute
 25 an indivisible injury. The actions required by this Order are
 26 necessary to protect the public health, welfare, and the
 27 environment.

IV. NOTICE TO THE STATE

24. On September 2, 1992, prior to issuing this Order, EPA notified the State of California Department of Toxic Substances Control, that EPA would be issuing this Order.

V. ORDER

25. Based on the foregoing, Respondents are hereby ordered, jointly and severally, to comply with the following provisions, including but not limited to all attachments to this Order, all documents incorporated by reference into this Order, and all schedules and deadlines in this Order, attached to this Order, or incorporated by reference into this Order:

VI. DEFINITIONS

- 26. Unless otherwise expressly provided herein, terms used in this Order which are defined in CERCLA or in regulations promulgated under CERCLA shall have the meaning assigned to them in the statute or its implementing regulations. Whenever terms listed below are used in this Order or in the documents attached to this Order or incorporated by reference into this Order, the following definitions shall apply:
- a. "Action Memorandum" shall mean the Action Memorandum signed on September 2, 1992, by Jeff Zelikson, Director, Hazardous Waste Management Division. This action memorandum authorizes the expansion of existing treatment capability at the Site and authorizes the preparation and use of a sludge disposal area.
- b. "CERCLA" shall mean the Comprehensive Environmental
 Response, Compensation, and Liability Act of 1980, as amended, 42
 U.S.C. §§ 9601 et seq.

c. "Day" shall mean a calendar day unless expressly stated to be a working day. "Working day" shall mean a day other than a Saturday, Sunday, or Federal holiday. In computing any period of time under this Order, where the last day would fall on a Saturday, Sunday, or Federal holiday, the period shall run until the end of the next working day.

- d. "DTSC" shall mean the California Department of Toxic Substances Control.
- e. "EPA" shall mean the United States Environmental Protection Agency.
- f. "National Contingency Plan" or "NCP" shall mean the National Contingency Plan promulgated pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, codified at 40 C.F.R. Part 300, including any amendments thereto.
- g. "Operation and Maintenance" or "O&M" shall mean all activities required under the Operation and Maintenance Plan developed by Respondent(s) pursuant to this Order and the Statement of Work, and approved by EPA.
- h. "Paragraph" shall mean a portion of this Order identified by an arabic numeral.
- i. "Performance Standards" shall mean those cleanup standards, standards of control, and other substantive requirements, criteria or limitations, identified in the Action Memorandum and Statement of Work, that the Work required by this Order must attain and maintain.
- j. "Record of Decision" or "ROD" shall mean the EPA Record of Decision relating to the Site, October 3, 1986, by Assistant Administrator J. Winston Porter, and all attachments thereto.

k. "Response Costs" shall mean all costs, including direct costs, indirect costs, and accrued interest incurred by the United States and the State of California to perform or support response actions at the Site. Response costs include but are not limited to the costs of overseeing the Work, such as the costs of reviewing or developing plans, reports and other items pursuant to this Order and costs associated with verifying the Work.

- 1. "RWQCB" shall mean the Regional Water Quality Control Board, Central Valley Region.
- m. "Statement of Work" or "SOW" shall mean the statement of work for implementation of the Remedial Design, Remedial Action, and Operation and Maintenance at the Site, as set forth in Attachment A to this Order. The Statement of Work is incorporated into this Order and is an enforceable part of this Order.
- n. "Section" shall mean a portion of this Order identified by a roman numeral and includes one or more paragraphs.
- o. "Site" shall mean the Iron Mountain Mine Superfund site, encompassing the approximately 4400 acres of mine property located in Shasta County, California, as described in the Record of Decision, and the areas downgradient and downstream where hazardous substances released from the mines have come to be located.
 - p. "State" shall mean the State of California.
 - q. "United States" shall mean the United States of America.
- r. "Work" shall mean all activities Respondents are required to perform under this Order, including design, construction, Operation and Maintenance, and any activities

required to be undertaken pursuant to Sections VII through XXIV, and XXVII of this Order.

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VII. NOTICE OF INTENT TO COMPLY

27. Respondents shall provide, not later than seven (7) days after the effective date of this Order, written notice to EPA's Remedial Project Manager (RPM) stating whether they will comply with the terms of this Order. If Respondents do not unequivocally commit to perform the work as provided by this Order, they shall be deemed to have violated this Order and to have failed or refused to comply with this Order. Respondent's written notice shall describe, using facts that exist on or prior to the effective date of this Order, any "sufficient cause" defenses asserted by Respondents under sections 106(b) and 107(c)(3) of CERCLA. The absence of a response by EPA to the notice required by this paragraph shall not be deemed to be acceptance of Respondent's assertions.

VIII. PARTIES BOUND

- 28. This Order shall apply to and be binding upon each Respondent identified in paragraph 3, their directors, officers, employees, agents, successors, and assigns. Respondents are jointly and severally responsible for carrying out all activities required by this Order. No change in the ownership, corporate status, or other control of any Respondents shall alter any of the Respondents' responsibilities under this Order.
- 29. Respondents shall provide a copy of this Order to any prospective owners or successors before a controlling interest in Respondent's assets, property rights, or stock are transferred to the prospective owner or successor. Respondents shall provide a

copy of this Order to each contractor, sub-contractor, 2 laboratory, or consultant retained to perform any Work under this Order, within five days after the effective date of this Order or 3 on the date such services are retained, whichever date occurs 4 Respondent(s) shall also provide a copy of this Order to 5 each person representing any Respondents with respect to the Site 6 7 or the Work and shall condition all contracts and subcontracts entered into hereunder upon performance of the Work in conformity 8 with the terms of this Order. With regard to the activities 9 undertaken pursuant to this Order, each contractor and 10 subcontractor shall be deemed to be related by contract to the 11 12 Respondents within the meaning of section 107(b)(3) of CERCLA, 42 U.S.C. § 9607(b)(3). Notwithstanding the terms of any contract, 13 Respondents are responsible for compliance with this Order and 14 for ensuring that their contractors, subcontractors and agents 15 comply with this Order, and perform any Work in accordance with 16 this Order. 17 Within five (5) days after the effective date of this Order 18 each Respondent that owns real property comprising all or part of 19 20 the Site shall record a copy or copies of this Order in the 21 appropriate governmental office where land ownership and transfer records are filed or recorded. Respondents shall, within 15 days 22 23 after the effective date of this Order, send notice of such recording and indexing to EPA. 24 Not later than sixty (60) days prior to any transfer of any 25 26 real property interest in any property included within the Site, Respondents shall submit a true and correct copy of the transfer 27

documents to EPA, and shall identify the transferee by name,

principal business address and effective date of the transfer.

IX. WORK TO BE PERFORMED

- 32. Respondents shall cooperate with EPA in providing information regarding the Work to the public. As requested by EPA, Respondents shall participate in the preparation of such information for distribution to the public and in public meetings which may be held or sponsored by EPA to explain activities at or relating to the Site.
- All aspects of the Work to be performed by Respondents pursuant to this Order shall be under the direction and supervision of a qualified project manager the selection of which shall be subject to approval by EPA. Within 5 days after the effective date of this Order, Respondents shall notify EPA in writing of the name and qualifications of the project manager, including primary support entities and staff, proposed to be used in carrying out Work under this Order. If at any time Respondents propose to use a different project manager, Respondents shall notify EPA and shall obtain approval from EPA before the new project manager performs any Work under this Order.
 - 34. EPA will review Respondents' selection of a project manager according to the terms of this paragraph and Section XIV of this Order. If EPA disapproves of the selection of the project manager, Respondents shall submit to EPA within 30 days after receipt of EPA's disapproval of the project manager previously selected, a list of project managers, including primary support entities and staff, that would be acceptable to Respondents. EPA will thereafter provide written notice to Respondents of the

- names of the project managers that are acceptable to EPA.

 Respondents may then select any approved project manager from

 that list and shall notify EPA of the name of the project manager

 selected within twenty-one (21) days of EPA's designation of
 - 35. Within fifteen (15) days after the effective date of this Order,
 - Respondents shall submit for EPA review and a. approval a workplan and schedule of implementation that meets the requirements of this Order and the Statement of Work provided in Attachment A for the removal of copper, cadmium and zinc from the Richmond "Five Way" AMD discharge, the Richmond "Floor Drainage" AMD discharge and the Lawson portal AMD discharge. workplan shall provide for treatment capacity capable of removing at least 99% of each of the metals copper, cadmium and zinc from a minimum, of 140 gallons per minute of the AMD flows. The available treatment capacity shall be utilized to treat the most concentrated of the above AMD flows as a priority. of the above AMD flows in excess of the 140 gallon per minute capacity of the neutralization treatment plant shall be treated for copper removal in the existing copper cementation plant and shall remove a minimum of 95% of the copper from the influent AMD flows.

The neutralization treatment plant shall provide for metals removal during the period November 1, 1992 through May 30, 1993 inclusive.

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The workplan shall provide for disposal of the sludge generated by the treatment process. To the extent that the workplan relies upon the existing neutralization treatment facility and the existing sludge drying ponds, the workplan shall provide for any necessary modifications to the treatment facility, excavation of the sludge from past treatment operations and temporary storage or disposal of that sludge. The workplan shall provide for submittal to EPA for review and approval all engineering and drawings related to assuring adequate capacity of the treatment facility and the sludge drying ponds and relocation and storage of the excavated sludge. If the workplan relies upon the storage or disposal of sludge from past years (and from anticipated operation during the 1992-93 water year) in Brick Flat Pit the workplan shall be consistent with the possible long-term use of Brick Flat Pit as a sludge dewatering and disposal facility as per EPA's May 20, 1992 Proposed Plan. The workplan shall be consistent with the conceptual designs for such use provided in EPA's May, 1992 Feasibility Study, Appendix K (provided as Attachment B to this Order) and the technical design memoranda (provided as Attachment C to this Order, August 20, 1992 "Draft Concept Design, "September 1, 1992 "Sludge Disposal Options," and September 2, 1992 "Implementability Analysis").

The workplan shall provide for a Sampling and and Analysis Plan and a Quality Assurance Project Plan in accordance with the Statement of Work in Attachment A.

The workplan shall require the use of appropriate

technologies. EPA has identified neutralization with lime, limestone, magnesium oxide or combinations thereof as appropriate technologies for treatment of Richmond and Lawson portal AMD discharges to reduce copper, cadmium and zinc.

The workplan shall provide for treating all acid mine drainage flows from the Richmond and Lawson Portals for copper removal by copper cementation year-round, unless the copper is treated by neutralization precipitation. Copper removal treatment shall remove at a minimum 95% of the copper in the influent flows to the copper treatment plant.

The workplan shall provide for copper removal treatment for Old Mine/No. 8 flows year-round. Copper removal treatment shall remove at a minimum 85% of the copper from the influent flows to the treatment plant.

The workplan shall provide for monthly reporting in accordance with the Statement of Work in Attachment A.

b. Immediately upon receipt of EPA's approval of the workplan and schedule, Respondents shall begin implementation of removal of copper, cadmium and zinc from the Richmond and Lawson portal AMD outflows in accordance with the approval workplan and schedule.

X. FAILURE TO ATTAIN PERFORMANCE STANDARDS

- 36. In the event that EPA determines that additional response activities are necessary to meet applicable Performance Standards, EPA may notify Respondents that additional response actions are necessary.
- 37. Unless otherwise stated by EPA, within thirty (30) days of

receipt of notice from EPA that additional response activities are necessary to meet any applicable Performance Standards, Respondents shall submit for approval by EPA a work plan for the additional response activities. The plan shall conform to the applicable requirements of sections IX, XVI, and XVII of this Order. Upon EPA's approval of the plan pursuant to Section XIV, Respondents shall implement the plan for additional response activities in accordance with the provisions and schedule contained therein.

XI. EPA PERIODIC REVIEW

38. Under section 121(c) of CERCLA, 42 U.S.C. § 9621(c), and any applicable regulations, EPA may review the Site to assure that the Work performed pursuant to this Order adequately protects human health and the environment. Until such time as EPA certifies completion of the Work, Respondents shall conduct the requisite studies, investigations, or other response actions as determined necessary by EPA in order to permit EPA to conduct the review under section 121(c) of CERCLA. As a result of any review performed under this paragraph, Respondents may be required to perform additional Work or to modify Work previously performed.

XII. ADDITIONAL RESPONSE ACTIONS

39. EPA may determine that in addition to the Work identified in this Order and attachments to this Order, additional response activities may be necessary to protect human health and the environment. If EPA determines that additional response activities are necessary, EPA may require Respondents to submit a work plan for additional response activities. EPA may also require Respondents to modify any plan, design, or other

deliverable required by this Order, including any approved 1 modifications.

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Not later than thirty (30) days after receiving EPA's notice that additional response activities are required pursuant to this Section, Respondents shall submit a work plan for the response activities to EPA for review and approval. Upon approval by EPA, the work plan is incorporated into this Order as a requirement of this Order and shall be an enforceable part of this Order. approval of the work plan by EPA, Respondents shall implement the work plan according to the standards, specifications, and schedule in the approved work plan. Respondents shall notify EPA of their intent to perform such additional response activities within seven (7) days after receipt of EPA's request for additional response activities.

XIII. ENDANGERMENT AND EMERGENCY RESPONSE

In the event of any action or occurrence during the performance of the Work which causes or threatens to cause a release of a hazardous substance or which may present an immediate threat to public health or welfare or the environment, Respondents shall immediately take all appropriate action to prevent, abate, or minimize the threat, and shall immediately notify EPA's Remedial Project Manager (RPM) or, if the RPM is unavailable, EPA's Alternate RPM. If neither of these persons is available Respondents shall notify the EPA Emergency Response Unit, Region 9. Respondents shall take such action in consultation with EPA's RPM and in accordance with all applicable provisions of this Order, including but not limited to the Health and Safety Plan and the Contingency Plan. In the event that

1 Respondents fails to take appropriate response action as required by this Section, and EPA takes that action instead, Respondents shall reimburse EPA for all costs of the response action not inconsistent with the NCP. Respondents shall pay the response costs in the manner described in Section XXIV of this Order, 5 within thirty (30) days of Respondent's receipt of demand for payment and a Regionally-prepared cost summary, which includes all direct and indirect costs incurred by EPA and the state and their contractors of the costs incurred.

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Nothing in the preceding paragraph shall be deemed to limit any authority of the United States to take, direct, or order all appropriate action to protect human health and the environment or to prevent, abate, or minimize an actual or threatened release of hazardous substances on, at, or from the Site.

XIV. EPA REVIEW OF SUBMISSIONS

After review of any deliverable, plan, report or other item which is required to be submitted for review and approval pursuant to this Order, EPA may: (a) approve the submission; (b) approve the submission with modifications; (c) disapprove the submission and direct Respondents to re-submit the document after incorporating EPA's comments; or (d) disapprove the submission and assume responsibility for performing all or any part of the response action. As used in this Order, the terms "approval by EPA, " "EPA approval," or a similar term means the action described in paragraphs (a) or (b) of this paragraph. In the event of approval or approval with modifications by

EPA, Respondents shall proceed to take any action required by the

plan, report, or other item, as approved or modified by EPA.

1 45. Upon receipt of a notice of disapproval or a request for a modification, Respondents shall, within twenty-one (21) days or such longer time as specified by EPA in its notice of disapproval or request for modification, correct the deficiencies and resubmit the plan, report, or other item for approval. 5 Notwithstanding the notice of disapproval, or approval with 6 modifications, Respondents shall proceed, at the direction of EPA, to take any action required by any non-deficient portion of the submission.

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If any submission is not approved by EPA, Respondents shall 10 11 be deemed to be in violation of this Order.

XV. PROGRESS REPORTS

- In addition to the other deliverables set forth in this Order, Respondents shall provide monthly progress reports to EPA with respect to actions and activities undertaken pursuant to this Order. The progress reports shall be submitted on or before the 15th day of each month following the effective date of this Order. Respondent's obligation to submit progress reports continues until EPA gives Respondents written notice that such progress reports are no longer necessary. At a minimum these progress reports shall provide the information specified in the Statement of Work.
- XVI. QUALITY ASSURANCE, SAMPLING AND DATA ANALYSIS Respondents shall use the quality assurance, quality 48. control, and chain of custody procedures described in the "EPA NEIC Policies and Procedures Manual," May 1978, revised May 1986, EPA-330/9-78-001-R, EPA's "Guidelines and Specifications for Preparing Quality Assurance Program Documentation, "June 1, 1987,

EPA's "Data Quality Objective Guidance," (EPA/540/G87/003 and 004) and any amendments to these documents, while conducting all sample collection and analysis activities required herein by any plan. To provide quality assurance and maintain quality control, Respondents shall:

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- a. Use only laboratories which have a documented Quality Assurance Program that complies with EPA guidance document QAMS-005/80.
- b. Ensure that the laboratory used by the Respondents for analyses, performs according to a method or methods deemed satisfactory to EPA and submits all protocols to be used for analyses to EPA at least 14 days before beginning analysis.
- c. Ensure that EPA personnel and EPA's authorized representatives are allowed access to the laboratory and personnel utilized by the Respondents for analyses.
- 49. Respondents shall notify EPA not less than fourteen (14) days in advance of any sample collection activity not otherwise specified in the Statement of Work. At the request of EPA, Respondents shall allow split or duplicate samples to be taken by EPA or its authorized representatives, of any samples collected by Respondents with regard to the Site or pursuant to the implementation of this Order. In addition, EPA shall have the right to take any additional samples that EPA deems necessary.

XVII. COMPLIANCE WITH APPLICABLE LAWS

- 50. All activities by Respondents pursuant to this Order shall be performed in accordance with the requirements of all Federal and state laws and regulations. EPA has determined that the activities contemplated by this Order are consistent with the National Contingency Plan (NCP).
- 27 51. Except as provided in section 121(e) of CERCLA and the NCP,
 28 no permit shall be required for any portion of the Work conducted

entirely on-Site. Where any portion of the Work requires a 1 Federal or state permit or approval, Respondents shall submit 2 timely applications and take all other actions necessary to 3 obtain and to comply with all such permits or approvals. 4 This Order is not, and shall not be construed to be, a 5 permit issued pursuant to any Federal or state statute or 6 regulation. 7 53. All materials removed from the Site shall be disposed of or 8 treated at a facility approved by EPA's RPM and in accordance 9 10 with section 121(d)(3) of CERCLA, 42 U.S.C. § 9621(d)(3); with the U.S. EPA "Revised Off-Site policy," OSWER Directive 9834.11, 11 November 13, 1987; and with all other applicable Federal, state, 12 and local requirements. 13 XVIII. REMEDIAL PROJECT MANAGER 14 15 54. All communications, whether written or oral, from Respondents to EPA shall be directed to EPA's Remedial Project 16 Manager or Alternate Remedial Project Manager. 17 Respondents shall submit to EPA three copies of all documents, including 18 plans, reports, and other correspondence, which are developed 19 20 pursuant to this Order, and shall send these documents by certified mail or overnight mail to EPA's Remedial Project 21 22 Manager: Rick Sugarek 23 United States Environmental Protection Agency 24 Region 9 25

75 Hawthorne Street

San Francisco, California 94105

(415) 744-2226

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- 1 55. EPA has the unreviewable right to change its Remedial
- 2 Project Manager. If EPA changes its Remedial Project Manager,
- 3 EPA will inform Respondents in writing of the name, address, and
- 4 telephone number of the new Remedial Project Manager.
- 5 56. EPA's RPM shall have the authority lawfully vested in a
- 6 Remedial Project Manager (RPM) and On-Scene Coordinator (OSC) by
- 7 the National Contingency Plan, 40 C.F.R. Part 300. EPA's RPM
- 8 shall have authority, consistent with the National Contingency
- 9 Plan, to halt any work required by this Order, and to take any
- 10 necessary response action.
- 11 57. Within ten (10) days after the effective date of this Order,
- 12 Respondents shall designate a Project Coordinator and shall
- 13 submit the name, address, and telephone number of the Project
- 14 Coordinator to EPA for review and approval. Respondents' Project
- 15 Coordinator shall be responsible for overseeing Respondents'
- 16∥ implementation of this Order. If Respondents wishes to change
- 17 | their Project Coordinator, Respondents shall provide written
- 18 notice to EPA, five (5) days prior to changing the Project
- 19 Coordinator, of the name and qualifications of the new Project
- 20 Coordinator. Respondents selection of a Project Coordinator
- 21 shall be subject to EPA approval.
- 22 XX. SITE ACCESS AND DATA/DOCUMENT AVAILABILITY
- 23 58. Respondents shall allow EPA and its authorized
- 24 representatives and contractors to enter and freely move about
- 25 all property at the Site and off-Site areas subject to or
- 26 affected by the work under this Order or where documents required
- 27 to be prepared or maintained by this Order are located, for the
- 28 purposes of inspecting conditions, activities, the results of

activities, records, operating logs, and contracts related to the Site or Respondents and its representatives or contractors pursuant to this Order; reviewing the progress of the Respondents in carrying out the terms of this Order; conducting tests as EPA or its authorized representatives or contractors deem necessary; using a camera, sound recording device or other documentary type equipment; and verifying the data submitted to EPA by Respondents. Respondents shall allow EPA and its authorized representatives to enter the Site, to inspect and copy all records, files, photographs, documents, sampling and monitoring data, and other writings related to work undertaken in carrying out this Order. Nothing herein shall be interpreted as limiting or affecting EPA's right of entry or inspection authority under Federal law. Respondents may assert a claim of business confidentiality covering part or all of the information submitted to EPA pursuant to the terms of this Order under 40 C.F.R. § 2.203, provided such claim is not inconsistent with section 104(e)(7) of CERCLA, 42 U.S.C. § 9604(e)(7) or other provisions of law. This claim shall be asserted in the manner described by 40 C.F.R. § 2.203(b) and substantiated by Respondents at the time the claim is made. Information determined to be confidential by EPA will be given the protection specified in 40 C.F.R. Part 2. If no such claim accompanies the information when it is submitted to EPA, it may be made available to the public by EPA or the state without further notice to the Respondents. Respondents shall not assert confidentiality claims with respect to any data related to Site conditions, sampling, or monitoring.

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60. Respondents shall maintain for the period during which this Order is in effect, an index of documents that Respondents claims contain confidential business information. The index shall contain, for each document, the date, author, addressee, and subject of the document. Upon written request from EPA, Respondents shall submit a copy of the index to EPA.

XXI. RECORD PRESERVATION

- 61. Respondents shall provide to EPA upon request, copies of all documents and information within their possession and/or control or that of their contractors or agents relating to activities at the Site or to the implementation of this Order, including but not limited to sampling, analysis, chain of custody records, manifests, trucking logs, receipts, reports, sample traffic routing, correspondence, or other documents or information related to the Work. Respondents shall also make available to EPA for purposes of investigation, information gathering, or testimony, their employees, agents, or representatives with knowledge of relevant facts concerning the performance of the Work.
- 62. Until ten (10) years after EPA provides notice pursuant to paragraph, each Respondent shall preserve and retain all records and documents in its possession or control, including the documents in the possession or control of their contractors and agents on and after the effective date of this Order that relate in any manner to the Site. At the conclusion of this document retention period, Respondents shall notify the United States at least ninety (90) calendar days prior to the destruction of any such records or documents, and upon request by the United States,

63. Until ten (10) years after EPA provides notice pursuant to paragraph of this Order, Respondents shall preserve, and shall instruct their contractors and agents to preserve, all documents,

Respondents shall deliver any such records or documents to EPA.

records, and information of whatever kind, nature or description relating to the performance of the Work. Upon the conclusion of

this document retention period, Respondents shall notify the

United States at least ninety (90) days prior to the destruction

of any such records, documents or information, and, upon request

of the United States, Respondents shall deliver all such

documents, records and information to EPA.

64. Within 30 days after the effective date of this Order, Respondents shall submit a written certification to EPA's RPM that they have not altered, mutilated, discarded, destroyed or otherwise disposed of any records, documents or other information relating to their potential liability with regard to the Site since notification of potential liability by the United States or the State or the filing of suit against it regarding the Site. Respondents shall not dispose of any such documents without prior approval by EPA. Respondents shall, upon EPA's request and at no cost to EPA, deliver the documents or copies of the documents to EPA.

XXII. DELAY IN PERFORMANCE

65. Any delay in performance of this Order that, in EPA's judgment, is not properly justified by Respondents under the terms of this paragraph shall be considered a violation of this Order. Any delay in performance of this Order shall not affect Respondents obligations to fully perform all obligations under

the terms and conditions of this Order.

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Respondents shall notify EPA of any delay or anticipated delay in performing any requirement of this Order. notification shall be made by telephone to EPA's RPM within forty eight (48) hours after Respondents first knew or should have known that a delay might occur. Respondents shall adopt all reasonable measures to avoid or minimize any such delay. Within five (5) business days after notifying EPA by telephone, Respondents shall provide written notification fully describing the nature of the delay, any justification for delay, any reason why Respondents should not be held strictly accountable for failing to comply with any relevant requirements of this Order, the measures planned and taken to minimize the delay, and a schedule for implementing the measures that will be taken to mitigate the effect of the delay. Increased costs or expenses associated with implementation of the activities called for in this Order is not a justification for any delay in performance.

XXIII. ASSURANCE OF ABILITY TO COMPLETE WORK

67. Respondents shall demonstrate their ability to complete the Work required by this Order and to pay all claims that arise from the performance of the Work by obtaining and presenting to EPA within thirty (30) days after approval of the Work Plan, one of the following: (1) a performance bond; (2) a letter of credit; (3) a guarantee by a third party; or (4) internal financial information to allow EPA to determine that Respondents has (have) sufficient assets available to perform the Work. Respondents shall demonstrate financial assurance in an amount no less than the estimate of cost for the activities required by the Statement

If Respondents seeks to demonstrate ability to complete of Work. the remedial action by means of internal financial information, or by guarantee of a third party, they shall re-submit such information annually, on the anniversary of the effective date of this Order. If EPA determines that such financial information is inadequate, Respondents shall, within thirty (30) days after receipt of EPA's notice of determination, obtain and present to EPA for approval one of the other three forms of financial assurance listed above. (a) At least seven (7) days prior to commencing any work at the Site pursuant to this Order, Respondents shall submit to EPA a certification that Respondents or their contractors and subcontractors have adequate insurance coverage or have indemnification for liabilities for injuries or damages to persons or property which may result from the activities to be conducted by or on behalf of Respondents pursuant to this Order. Respondents shall ensure that such insurance or indemnification is maintained for the duration of the Work required by this Order.

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EPA's cortified Accounting

XXIV. REIMBURSEMENT OF RESPONSE COSTS

68. Respondents shall reimburse EPA, upon written demand, for all response costs incurred by the United States in overseeing Respondent's implementation of the requirements of this Order or in performing any response action which Respondents fails to perform in compliance with this Order. EPA may submit to Respondents on a periodic basis an accounting of all response costs incurred by the United States with respect to this Order.

- serve as basis for payment demands. 1
- 2 Respondents shall, within thirty (30) days of receipt of each EPA accounting, remit a certified or cashier's check for the 3 amount of those costs. Interest shall accrue from the later of 4 the date that payment of a specified amount is demanded in 5 writing or the date of the expenditure. The interest rate is the 6 rate established by the Department of the Treasury pursuant to 31 7 U.S.C. § 3717 and 4 C.F.R. § 102.13. 8
 - 70. Checks shall be made payable to the Hazardous Substances Superfund and shall include the name of the Site, the Site identification number, the account number and the title of this Order. Checks shall be forwarded to:
 - U.S. Environmental Protection Agency Superfund Accounting P.O. Box 360863M Pittsburgh, PA 15251

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Respondents shall send copies of each transmittal letter and check to the EPA's RPM.

XXV. UNITED STATES NOT LIABLE

The United States, by issuance of this Order, assumes no 72. liability for any injuries or damages to persons or property resulting from acts or omissions by Respondents, or its (their) directors, officers, employees, agents, representatives, successors, assigns, contractors, or consultants in carrying out any action or activity pursuant to this Order. Neither EPA nor the United States may be deemed to be a party to any contract 25 26 entered into by Respondents or its (their) directors, officers, employees, agents, successors, assigns, contractors, or consultants in carrying out any action or activity pursuant to 28

this Order.

XXVI. ENFORCEMENT AND RESERVATIONS

- 73. EPA reserves the right to bring an action against
 Respondents under section 107 of CERCLA, 42 U.S.C. § 9607, for
 recovery of any response costs incurred by the United States
 related to this Order and not reimbursed by Respondents. This
 reservation shall include but not be limited to past costs,
 direct costs, indirect costs, the costs of oversight, the costs
 of compiling the cost documentation to support oversight cost
 demand, as well as accrued interest as provided in section 107(a)
 of CERCLA.
- 74. Notwithstanding any other provision of this Order, at any time during the response action, EPA may perform its own studies, complete the response action (or any portion of the response action) as provided in CERCLA and the NCP, and seek reimbursement from Respondents for its costs, or seek any other appropriate relief.
- 75. Nothing in this Order shall preclude EPA from taking any additional enforcement actions, including modification of this Order or issuance of additional Orders, and/or additional remedial or removal actions as EPA may deem necessary, or from requiring Respondents in the future to perform additional activities pursuant to CERCLA, 42 U.S.C. § 9606(a), et seq., or any other applicable law. Respondents shall be liable under CERCLA section 107(a), 42 U.S.C. § 9607(a), for the costs of any such additional actions.
- 76. Notwithstanding any provision of this Order, the United
 States hereby retains all of its information gathering,

inspection and enforcement authorities and rights under CERCLA,
RCRA and any other applicable statutes or regulations.

proper action.

- 77. Respondents shall be subject to civil penalties under section 106(b) of CERCLA, 42 U.S.C. § 9606(b), of not more than \$25,000 for each day in which Respondents willfully violates, or fails or refuses to comply with this Order without sufficient cause. In addition, failure to properly provide response action under this Order, or any portion hereof, without sufficient cause, may result in liability under section 107(c)(3) of CERCLA, 42 U.S.C. § 9607(c)(3), for punitive damages in an amount at least equal to, and not more than three times the amount of any costs incurred by the Fund as a result of such failure to take
 - 78. Nothing in this Order shall constitute or be construed as a release from any claim, cause of action or demand in law or equity against any person for any liability it may have arising out of or relating in any way to the Site.
 - 79. If a court issues an order that invalidates any provision of this Order or finds that Respondents has sufficient cause not to comply with one or more provisions of this Order, Respondents shall remain bound to comply with all provisions of this Order not invalidated by the court's order.

XXVII. ADMINISTRATIVE RECORD

80. Upon request by EPA, Respondents must submit to EPA all documents related to the selection of the response action for possible inclusion in the administrative record file.

XXVIII. EFFECTIVE DATE AND COMPUTATION OF TIME

81. This Order shall be effective 15 days after the Order is

1 signed by the Director, Hazardous Waste Management Division. times for performance of ordered activities shall be calculated from this effective date.

XXIX. OPPORTUNITY TO CONFER

- Respondents may, within ten (10) days after the date this 82. Order is signed, request a conference with EPA's Director, Hazardous Waste Management Division, to discuss this Order. Ιf requested, the conference shall occur no later than ten (10) days after the request is made and shall be held at EPA Region 9, 75 Hawthorne Street, San Francisco, CA. The Director may designate an alternate to meet with Respondents in the event of a schedule conflict.
- The purpose and scope of the conference shall be limited to issues involving the implementation of the response actions required by this Order and the extent to which Respondents intends to comply with this Order. This conference is not an evidentiary hearing, and does not constitute a proceeding to challenge this Order. It does not give Respondents a right to seek review of this Order, or to seek resolution of potential liability, and no official stenographic record of the conference will be made. At any conference held pursuant to Respondent's request, Respondents may appear in person or by an attorney or other representative.

Rick Sugarek United States Environmental Protection Agency Region 9 75 Hawthorne Street San Francisco, California 94105 (415) 744-2226

written confirmation mailed that day to

Requests for a conference must be by telephone followed by

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1	XXIX. EFFECT ON PREVIOUS ORDERS
2	85. Nothing in this order shall be construed to excuse any non-
3	compliance with any previous order issued to Respondents,
4	including Order Nos. 89-18, 90-08 and 91-18.
5	86. Upon Respondents' notification to EPA of their willingness
6	to comply with this Order, the terms of this Order shall
7	supersede the requirements of Order No. 89-18, Section V,
8	paragraph C(2), with respect to Respondents' obligation to
9	implement the workplan required by Order No. 89-18, Section V,
10	paragraph (c)(1).
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15	So Ordered, this 2 day of September, 1992.
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17	3. 1BCon.
18	BY: Jeff Zelikson
19	Director, Hazardous Waste Management Division U.S. Environmental Protection Agency, Region 9
20	orbi Environmental reconstruction ingeneral residents
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